Abstract:

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The present invention is a scale to be mounted onto a load-bearing member of a vehicle, structure or other entity supporting a load to be measured. The invention uses optics to measure the flexure of the loaded structural member. The flexure is proportional to the weight of the load. Associated electronics amplify the optical output signals, feed back one to compensate for temperature variations, convert the other to digital to drive a readout device that displays the resultant weight figure.

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